

FOOD BALANCE SHEETS

1979-81 AVERAGE

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Rome 1984

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FOOD BALANCE SHEETS - 1979-81 AVERAGE

FOREWORD

This volume is a follow-up of "Provisional Food Balance Sheets 1972-74 Average" and "Food Balance Sheets 1975-77 Average and Per Caput Food Supplies 1961-65 Average, 1967 to 1977" published in 1977 and 1980 respectively which were processed from the FAO's Agricultural Data Bank known as the Interlinked Computerized Storage and Processing System of Food and Agricultural Commodity Data (ICS). The present volume, unlike the previous ones, shows food balance sheets in a standardized format presenting statistical information for processed commodities, where possible, in their primary commodity equivalent.

The ICS currently includes Supply/Utilization Accounts (SUA's) for almost 300 primary food and agricultural and fishery commodities and about 380 processed products derived therefrom for almost all the countries and territories in the world from 1961 onwards, together with other related statistical series. These SUA's, which represent the core of FAO's Agricultural Data Bank, contain the estimates of supplies from different sources matched against estimates of different forms of utilization of each product and the input series which are regularly updated and, in addition, revised in the light of any new information. Accordingly, the food balance sheets derived from the SUA's of food products are consistent internally and also with the other outputs of ICS, annual basic data series and derived statistics. What is equally important is that computerization has enabled the Organization to update and revise simultaneously the entire series of food balance sheets. This has resulted in considerable reduction of the time-lag in the publication of the food balance sheets and facilitated meeting the demand for food balance sheets' data series by users both inside and outside FAO. In FAO's work, these data are required to meet the requests of its statutory bodies to keep the world's food and nutrition situation under constant review and to update FAO's analytical work in the field of food and population and to provide the statistical base for the projections of demand for agricultural commodities and other assessment studies.

The food balance sheets for 146 countries and territories included in this document have been extracted from individual SUA series prepared on a calendar-year basis. In constructing the SUA's and the food balance sheets derived therefrom, both official and unofficial data available in the Statistics Division and other Units concerned in FAO have been used and missing data have been estimated on the basis of surveys and other information as well as technical expertise available in FAO. Comments on the previously published average food balance sheets and suggestions for their improvement received from countries have also been taken into account in preparing this new set of standardized food balance sheets.

The food balances reflect the best available information on the food situation prevailing in the individual countries during the years shown. The presentation also allows for inter-country comparisons of dietary and trade patterns.

In addition to the food balance sheets for individual countries, a table is included showing daily per caput food supplies (total as well as its vegetable or animal origin) in terms of calories, protein and fat, for the world, continents and economic classes and regions. The figures in this table are based on information for more countries than are included in the publication, and cover 100% of the population in both developed and developing countries. The additional information in its food balance sheet form is not shown separately due to the paucity of official statistics. However, tentative assessments were made for these countries and they are available on request from the Basic Data Unit of FAO's Statistics Division.

It is hoped that various organizations, planners and researchers concerned with the assessment of the food and nutrition situation will find this new volume of food balance sheets useful in their work. Additionally, the issuance of this present volume is intended to stimulate the interest of member countries in the construction of food balance sheets by their statistical organizations thus leading to further intensification of dialogues with FAO on the harmonization of FAO data series on food and agriculture with the statistical records of member countries.

Leroy Quance
Director
Statistics Division

INTRODUCTION

The present document continues the series of FAO's periodical publications of food balance sheets for specified countries. In 1949, food balance sheets were published for 41 countries covering the period 1934-38 and 1947/48, with a supplement in 1950 giving 1948/49 data for 36 countries. The Handbook for the Preparation of Food Balance Sheets was also published in 1949. In 1955, food balance sheets giving 1950/51 and 1951/52 data were published for 33 countries, together with revised data for the 1934-38 period. Supplements were issued in 1956 giving 1952/53 data for 30 countries, and in 1957 giving 1953/54 and 1954/55 data for 29 countries.

For methodological reasons, it was decided in 1957 to discontinue the publication of annual food balance sheets and to publish instead three-year average food balance sheets. The first set of which, for 30 countries, was issued in 1958, covering the period 1954-56; the second for 43 countries in 1963, covering the period 1957-59; the third for 63 countries in 1966, covering the period 1960-62 and the fourth in 1971 for 132 countries, covering the period 1964-66. In 1960, time series covering the periods 1935-39, 1948-50, 1951-53 and 1954-56 were published showing data for 32 countries on production, available supply, feed and manufacture, as well as per caput food supplies available for human consumption in quantity, caloric value and protein and fat content.

In recent years, the geographic coverage of FAO's regular work on food balance sheets has been progressively extended to meet the statistical needs of FAO's contribution to the review and appraisal studies for the Second UN Development Decade, of FAO's Agricultural Commodity Projections and of work initiated under FAO's Perspective Study of World Agricultural Development and Agriculture: Towards 2000. This has led to the establishment of the Interlinked Computerized Storage and Processing System of Food and Agricultural Commodity Data (ICS) covering for about 200 countries and territories, from 1961 onwards, some 300 primary crop, livestock and fishery commodities and about 380 processed products derived therefrom generally up to the first stage of processing for crops and fishery products and to the second stage of processing for livestock products. Accordingly, it was possible to publish in 1977 provisional 1972-74 average food balance sheets for 162 developed and developing countries. For the first time, tables were included showing for all countries, continents, economic classes and regions and the world, long-term series of per caput food supplies in terms of calories, protein and fat by major food groups for the average period 1961-63 and individual years 1964 to 1974. The following issue included 1975-77 average food balance sheets for 164 countries, together with long-term series of per caput food supplies and tables showing the conversion ratios applied and the various assumptions made in arriving at the published figures. The present publication includes standardized food balance sheets for the three-year-average period 1979-81 for 146 countries. In addition to the special publications of complete food balance sheets, FAO publishes in its Production Yearbook, information on per caput food supply in terms of calories, protein, fat and selected minerals and vitamins.

Food balance sheets were the main source of data used in the assessment and appraisal of the world food situation which FAO made for the pre-war period in its first World Food Survey (1946), for the early post-war period in the Second World Food Survey (1952), for the late fifties in its Third World Food Survey (1963), and for the early seventies in its Fourth World Food Survey (1977), and more recently in the preparation of the Fifth World Food Survey. For the purposes of these surveys, food balance sheets were prepared for many more countries than had been included in the regular publications referred to earlier. Thus, the first World Food Survey was based on pre-war data for 70 countries,

representing about 90% of the world population at that time, and the Fourth World Food Survey included 162 countries covering more than 99% of the world population and was based on 1972-74 data. Food balance sheets also provided a major source of information for establishing the statistical base of FAO's Indicative World Plan for Agricultural Development, for which purpose 1961-63 average food balance sheets were prepared for all the 64 developing countries included in the study.

FOOD BALANCE SHEETS - WHAT THEY ARE AND HOW THEY CAN SERVE

A food balance sheet presents a comprehensive picture of the pattern of a country's food supply during a specified reference period. The food balance sheet shows for each food item - i.e. each primary commodity and a number of processed commodities potentially available for human consumption - the sources of supply and its utilization. The total quantity of foodstuffs produced in a country added to the total quantity imported and adjusted to any change in stocks that may have occurred since the beginning of the reference period gives the supply available during that period. On the utilization side a distinction is made between the quantities exported, fed to livestock, used for seed, put to manufacture for food use and non-food uses, losses during storage and transportation, and food supplies available for human consumption. The per caput supply of each such food item available for human consumption is then obtained by dividing the respective quantity by the related data on the population actually partaking of it. Data on per caput food supplies are expressed in terms of quantity and - by applying appropriate food composition factors for all primary and processed products - also in terms of caloric value and protein and fat content.

Annual food balance sheets tabulated regularly over a period of years will show the trends in the overall national food supply, disclose changes that may have taken place in the types of food consumed, i.e., the pattern of the diet, and reveal the extent to which the food supply of the country, as a whole, is adequate in relation to nutritional requirements.

By bringing together the larger part of the food and agricultural data in each country, food balance sheets also serve in the detailed examination and appraisal of the food and agricultural situation in a country. A comparison of the quantities of food available for human consumption with those imported will indicate the extent to which a country depends upon imports (import dependency ratio). The amount of food crops used for feeding livestock in relation to total crop production indicates the degree to which primary food resources are used to produce animal feed which is useful to know when analyzing livestock policies or patterns of agriculture. Data on per caput food supplies serve as a major element for the projection of food demand, together with other elements, such as income elasticity coefficients, projections of private consumption expenditure and of population.

It is important to note that the quantities of food available for human consumption, as estimated in the food balance sheet, relate simply to the quantities of food reaching the consumer. Waste on the farm and during distribution and processing is taken into consideration as an element in the food balance sheet.

Post-harvest losses in most of the countries are considered to be substantial due to the fact that most of the grain production is retained on the farm so as to provide sufficient quantities to last from one harvest to the next. Farm storage facilities in most of the developing countries are usually primitive and inadequately protected from the natural competitors of man for food.

The losses tend to become even more serious in countries where the agricultural products reach the consumers in urban areas after passing through several marketing stages. In fact, one of the major causes of food waste in some developing countries is the lack of adequate marketing systems and organization. Much food remains unsold because of the imbalances of supply and demand. This is particularly true of perishable foods, such as fresh fruit and vegetables.

Technical losses occurring during the transformation of primary commodities into processed products are taken into account in the assessment of respective extraction/conversion rates.

However, the amount of food actually consumed may be lower than the quantity shown in the food balance sheet depending on the degree of losses of edible food and nutrients in the household, e.g. during storage, in preparation and cooking (which affect vitamins and minerals to a greater extent than they do calories, protein and fat), as plate-waste or quantities fed to domestic animals and pets, or thrown away.

Food balance sheets do not give any indication of the differences that may exist in the diet consumed by different population groups, e.g., different socio-economic groups, ecological zones and geographical areas within a country; neither do they provide information on seasonal variations in the total food supply. To obtain a complete picture, food consumption surveys showing the distribution of the national food supply at various times of the year among different groups of the population should be conducted. In fact, the two sets of data are complementary. There are commodities for which a production estimate could best be based on estimated consumption as obtained from food consumption surveys. On the other hand, there are commodities for which production, trade and utilization statistics could give a better nationwide consumption estimate than the data derived from food consumption surveys.

ACCURACY OF FOOD BALANCE SHEETS

The accuracy of food balance sheets, which are in essence derived statistics, is of course dependent on the reliability of the underlying basic statistics of population, supply and utilization of foods and of their nutritive value. These vary a great deal between countries, both in terms of coverage as well as in accuracy. In fact, there are many gaps particularly in the statistics of utilization for non-food purposes, such as feed, seed and manufacture, as well as in those of farm, commercial and even government stocks. To overcome the former difficulty, estimates were prepared in FAO while the effect of the absence of statistics on stocks is considered to be reduced by preparing the food balance sheets as an average for a three-year period. But even the production and trade statistics on which the accuracy of food balance sheets depends most are, in many cases, subject to improvement through the organization of appropriate statistical field surveys. Furthermore, there are very few surveys so far known on which to base sound figures for waste, and in some cases also these are subject to significant margins of error. In most cases, the assumptions for waste used in food balance sheets are based on expert opinion obtained in the countries.

The available statistics being what they are, considerable use had to be made in the preparation of the food balance sheets of evaluation techniques provided by consistency checks. Internal consistency checks are inherent in the accounting technique of the food balance sheet itself. Even more important are external consistency checks based on related supplementary information, such as the results of surveys conducted in various parts of the world as well as relevant technical, nutritional and economic expertise.

It is believed that the food balance sheets so prepared, while often being far from satisfactory in the proper statistical sense, provide an approximate picture of the overall food situation in the countries which may be used for economic and nutritional studies, the preparation of development plans and the formulation of related projects, as in fact is being done in the FAO.

The data evaluation and consistency checks undertaken within the framework of the supply/utilization accounts for the preparation of food balance sheets in fact revealed a number of gaps and inconsistencies in the underlying basic statistics for many, particularly developing, countries. Although these have been remedied by estimates and/or adjustments in the present food balance sheets for the purpose of providing a plausible picture of the food supply situation, the problems encountered should guide FAO's promotional and developmental efforts in the countries concerned to improve the coverage and quality of the basic statistics.

CONCEPTS AND DEFINITIONS USED IN FOOD BALANCE SHEETS

Commodity Coverage

As already indicated, all potentially edible commodities should, in principle, be taken into account in preparing food balance sheets regardless of whether they are actually eaten or used for non-food purposes. This principle is kept in mind in FAO's current work on food balance sheets. For practical purposes, therefore, a pragmatic list of commodities will have to be adopted. In the past, the commodity list included primary and processed products. However, taking into account the fact that statistical information for processed commodities is mostly limited to trade in the ICS Agricultural Data Bank, the commodity list in this publication has been generally confined to primary commodities - except for sugar, oils and fats and beverages. Whenever possible trade in processed commodities is expressed in the originating primary commodity equivalent and these figures are shown separately in the column "Processed Trade (E-I)". Two criteria have been chosen for generally presenting the figures for a particular commodity in the food balance sheets: (i) the product is a primary commodity, and (ii) the product is a processed commodity for which - because of its composite nature - it was impossible to give the primary commodity equivalent. Clearly, information is not shown for commodities for which total domestic supply is less than half of the reporting unit. A list of about 300 commodities and their classification into major food groups, prepared by FAO for food-balance-sheet purposes, is shown at the end of this Note.

Supply and Utilization Elements

(i) Production

In principle, production figures relate to the total domestic production whether inside or outside the agricultural sector, i.e., it includes non-commercial production and production from kitchen gardens. Unless otherwise indicated, production is reported at the farm level for crop and livestock products (i.e., in the case of crops, excluding harvesting losses) and in terms of live weight for fish items (i.e., the actual ex-water weight at the time of the catch). As a general rule, all data on meat are expressed in terms of carcass weight. Usually, production data relate to production during the reference period. Where it was not possible to convert back a processed-commodity to its originating primary commodity, the data are shown at the processed commodity level. In this case, the production is an estimate made for the purposes of avoiding double counting and allowing for food trade. Therefore, the figures shown for PRODUCTION, DOMESTIC SUPPLY and DOMESTIC UTILIZATION of these commodities may not represent the "Total" for the country.

(ii) Imports

In principle, this covers all movements into the country of the commodity in question. It includes commercial trade, food aid granted on specific terms, donated quantities and estimates of unrecorded trade. As a general rule, figures are reported in terms of net weight, i.e., excluding the weight of the container.

(iii) Stock Changes

In principle, this heading comprises changes in stocks occurring during the reference period at all levels between the production and the retail levels, i.e., it comprises changes in government stocks, in stocks with manufacturers, importers, exporters, other wholesale and retail merchants, transport and storage enterprises and in stocks on farms. In actual fact, however, the information available often relates only to stocks held by governments and even these are not available for a number of countries and important commodities. For this reason food balance sheets are usually prepared as an average of several years since this is believed to reduce the degree of inaccuracy contributed by the absence of information on stocks. In the absence of information on opening and closing stocks changes in stocks are also used for shifting production from the calendar year in which it is harvested to the year in which it is consumed. Net decreases in stocks are generally indicated by the sign "-". No sign denotes net increases.

(iv) Exports

In principle, this covers all movements out of the country of the commodity in question during the reference period. Remarks made above under Imports apply by analogy.

(v) Processed Trade (E-I)

In principle, this heading covers net trade (exports minus imports) of processed commodities expressed in their primary commodity equivalent.

(vi) Domestic Supply

There are various ways of defining SUPPLY and, in fact, various concepts are in use. The elements involved are production, imports, exports and changes in stocks (increases or decreases). There is no doubt that production, imports and decreases in stocks are genuine supply elements. Exports and increases in stocks might, however, be considered as utilization elements. Accordingly, the following are possible ways of defining SUPPLY:

- (a) Production + imports + decrease in stocks = total supply.
- (b) Production + imports + changes in stocks (decrease or increase) = supply available for export and domestic utilization.
- (c) Production + imports - exports + changes in stocks (decrease or increase) = supply for domestic utilization.
This concept is used also in this document.

(vii) Feed

This comprises the amounts of the commodity in question and of edible commodities derived therefrom not shown separately in the food balance sheet fed to livestock during the reference period, whether domestically produced or imported. Since compound feedingstuffs are not shown separately, quantities of the commodity in question which have been processed into compounds are, in principle, included.

(viii) Seed

In principle, this comprises all amounts of the commodity in question used during the reference period for reproductive purposes, such as seed, sugar cane planted, eggs for hatching and fish for bait, whether domestically produced or imported. Whenever official data were not available, seed figures have been estimated either as a percentage of supply, (e.g. eggs for hatching) or by multiplying a seed rate with the area under the crop of the subsequent year. In those cases where part of the crop is harvested green (e.g. cereals for direct feed or silage, green peas, green beans) account has been taken of the area under the crop harvested green.

(ix) Manufacture

A distinction can be made between manufacture for food and manufacture for non-food use. The amounts of the commodity in question used during the reference period for manufacture of processed commodities which could not be converted back to their originating primary commodities or which are part of a separate food group (e.g. sugar, fats and oils, alcoholic beverages) are shown under MANUFACTURE FOR FOOD. Quantities of the commodity in question used for manufacture for non-food purposes, e.g. oil for soap, are shown under MANUFACTURE FOR NON-FOOD USE. The processed products do not always appear in the same food group. While oilseeds are shown under NUTS AND OILSEEDS, the respective oil is shown under the group OILS AND FATS; similarly, skim milk is in the group MILK, while butter is under OILS AND FATS.

(x) Waste

This comprises the amounts of the commodity in question and of the commodities derived therefrom not further pursued in the food balance sheet, lost through waste at all stages between the level at which production is recorded and the household, i.e. waste in processing, storage and transportation. Losses occurring during the pre-harvest and harvested stages are excluded (see note on "Production"). Waste from both edible and inedible parts of the commodity occurring in the household is also excluded. Technical losses occurring during the transformation of primary commodities into processed products are taken into account in the assessment of respective extraction/conversion rates.

(xi) Food

This comprises the amounts of the commodity in question and of any commodities derived therefrom not further pursued in the food balance sheet, available for human consumption during the reference period. FOOD of "maize", for example, comprises the amount of maize, maize meal and any other products derived therefrom available for human consumption. FOOD of "milk" relates to the amounts of milk available for human consumption as milk during the reference period, but not as butter, cheese or any other milk product provided for in the standardized food balance sheet.

Per Caput Supply

The columns under this heading give estimates of per caput food supplies available for human consumption during the reference period in terms of quantity, caloric value and protein and fat content. Calorie supplies are reported in kilocalories. The traditional unit of calories is being retained for the time being and until such time as the proposed "kilojoule" gains wider acceptance and understanding (1 calorie = 4.19 kilojoules). Per caput supplies in terms of quantity are derived from the total supplies available for human consumption (i.e. FOOD) by dividing the quantities of FOOD by the total population actually partaking of the food

supplies during the reference period, i.e., the present-in-area (de facto) population within the present geographical boundaries of the country. In other words, nationals living abroad during the reference period are excluded, but foreigners living in the country are included. Adjustments are made wherever possible for part-time presence or absence, such as temporary migrants and tourists, and for special population groups not partaking of the national food supply, such as aborigines living under subsistence conditions (if it has not been possible to include subsistence production in the food balance sheets) and refugees supported by special schemes (if it has not been possible to allow for the amounts provided by such schemes under imports). In almost all cases, the population figures used are the mid-year estimates published by the United Nations Population Division.

Per caput supply figures shown in the food balance sheets therefore represent only the average supply available for the population as a whole and do not necessarily indicate what is actually consumed by individuals. Even if they are taken as approximation to per caput consumption, it is important to bear in mind that there could be considerable variation in consumption between individuals.

In many cases commodities are not consumed in the primary form in which they are presented in the standardized food balance sheet, e.g. cereals enter the household mainly in processed form like flour, meal, husked or milled rice. To take this fact into account, the caloric value and the protein and fat content shown against primary commodities in the standardized food balance sheets have been derived by applying the appropriate food composition factors to the quantities of the processed commodities (which are available in the ICS Agricultural Data Bank) and not by multiplying the quantities shown in the food balance sheet with the food composition factors relating to primary commodities.

For this purpose, considerable research was carried out to obtain additional information regarding the specifications of the food required for the choice of the appropriate food composition factors. For example, the choice of the food composition factors for wheat flour, among other factors, depends on the water content, the variety and the degree of milling. The choice of the corresponding factors for cheese depends on whether cheese is derived from whole milk, partly whole milk or skim milk from cows, sheep, goats, buffaloes and on whether the cheese is hard, semi-soft or soft. First-hand expert knowledge available in the FAO, both in the fields of nutrition and food technology, and available national, regional and international food composition tables proved to be of particular value in this respect. Whenever possible, regional food composition tables have been used. INCAP-ICNND: Food Composition Table for Use in Latin America; FAO: Food Composition Table for Use in East Asia; FAO: Food Composition Table for Use in Africa; FAO: Food Composition Tables for the Near East. For developed countries, the tables prepared by the USDA: Composition of Foods, Handbook No. 8 and by SOUCI, FACHMANN, KRAUT: Die Zusammensetzung der Lebensmittel (Nährwert-Tabellen) were used. In addition, use was made of FAO's Food Composition Tables - Minerals and Vitamins - for International Use in the absence of any specific factors in the relevant regional tables.

For calories, protein and fat, a grand total and its breakdown into components of vegetable and animal origin is shown at the beginning of each food balance sheet. In addition, sub-totals are shown for the grand total excluding alcohol and for the various commodity groups.

POPULATION COVERAGE

In general, the population data used are three-year averages of the mid-year estimates published for each country by the Population Division of the UN. In order to arrive at a more realistic picture of per caput food supply (see also notes on "Per Caput Supply" above), it was necessary, however, to deviate in some cases from this rule and to use different figures from those given by the United Nations.

The 146 countries for which data are published cover 94% of the population of developing countries, 100% of the population of developed countries and 95% of world population.

UNITS AND SYMBOLS

In all cases, the metric system has been applied. The units used are given in the heading of the food balance sheets themselves. Data are recorded either in thousand metric tons or metric tons. Figures of per caput food supply are shown in kilograms per year, grams per day, the caloric value in numbers of kilocalories per day, the protein and fat content in grams per day.

Figures have been rounded individually to the smallest unit shown, independent of totals of lines or columns; this procedure may cause slight differences in the totals.

The symbols used in the tables are:

NES Not elsewhere specified or included

(.) To divide the decimals from the whole number, a period (.) is used

- In the column STOCK CHANGES, the sign "-" indicates net decreases in stocks and in the column PROCESSED TRADE (E-I) it denotes net imports.

A blank space indicates that no data are available, that the quantity is either negligible (i.e., less than half of the reporting unit) or nil, or that the entry is not applicable.

LIST OF COMMODITIES BY MAJOR FOOD GROUPS

GRAND TOTAL
VEGETABLE PRODUCTS
ANIMAL PRODUCTS

GRAND TOTAL EXCL ALCOHOL

CEREALS

WHEAT
PADDY RICE
BARLEY
MAIZE
MAIZE FOR POP CORN
RYE
OATS
MILLET
SORGHUM
BUCKWHEAT
QUINOA
FONIO
TRITICALE
CANARY SEED
MIXED GRAIN
CEREALS NES
PREPARED CEREALS NES

ROOTS AND TUBERS

POTATOES
POTATO TAPIOCA
SWEET POTATOES
CASSAVA
YAUTIA
TARO COCOYAM
YAMS
ROOTS AND TUBERS NES
FLOUR OF ROOT AND TUBERS

SUGARS AND HONEY

SUGAR CANE
SUGAR BEETS
SUGAR CROPS NES
RAW SUGAR
SUGAR CONFECTIONERY
GLUCOSE AND DEXTROSE
NONCENTRIFUGAL SUGAR
SUGARS AND SYRUPS NES
HONEY

PULSES

DRY BEANS
DRY BROAD BEANS
DRY PEAS
CHICKPEAS
DRY COW PEAS
PIGEON PEAS
LENTILS
BAMBARA BEANS
VETCHES
LUPINS
PULSES NES

NUTS AND OILSEEDS

BRAZIL NUTS
CASHEW NUTS
CHESTNUTS
ALMONDS
WALNUTS
PISTACHIOS
HAZELNUTS FILBERTS
NUTS NES
PREPARED NUTS
SOYBEANS
GROUNDNUTS IN SHELL
COCONUTS
PALM KERNELS
OLIVES
KARITE NUTS SHEANUTS
CASTOR BEANS
SUNFLOWER SEED
RAPESEED
TUNG NUTS
SAFFLOWER SEED
SESAME SEED
MUSTARD SEED
POPPY SEED

MELONSEED
TALLOWTREE SEEDS
KAPOK FRUIT
KAPOKSEED
COTTONSEED
LINSEED
HEMPSEED
OILSEEDS NES

VEGETABLES

CABBAGES
ARTICHOKES
ASPARAGUS
LETTUCE
SPINACH
TOMATOES
CAULIFLOWER
PUMPKINS, SQUASH, GOURDS
CUCUMBERS AND GHERKINS
EGGPLANTS
GREEN CHILLIES PEPPERS
GREEN ONIONS SHALLOTS
DRY ONIONS
GARLIC
GREEN BEANS
GREEN PEAS
GREEN BROAD BEANS
STRING BEANS
CARROTS
OKRA
GREEN CORN MAIZE
MUSHROOMS
CAROBS
FRESH VEGETABLES NES
FROZEN VEGETABLES
VEGETABLES TEMP PRESERVE
DRIED VEGETABLES NES
CANNED VEGETABLES NES
VEGETABLE JUICE NES
DEHYDRATED VEGETABLES
VEGETABLES IN VINEGAR
PREPARED VEGETABLES NES
VEGETABLE PRODUCTS NES

FRUITS

BANANAS
PLANTAINS
ORANGES
TANGERINES MANDARINES
LEMONS AND LIMES
GRAPEFRUIT AND POMELO
CITRUS FRUIT NES
APPLES
PEARS
QUINCES
APRICOTS
SOUR CHERRIES
CHERRIES
PEACHES AND NECTRINES
PLUMS
STONE FRUIT NES
POME FRUIT NES
STRAWBERRIES
RASPBERRIES
GOOSEBERRIES
CURRANTS
BLUEBERRIES
CRANBERRIES
BERRIES NES
GRAPES
WATERMELONS
MELONS CANTELOUPES
FIGS
MANGOES
AVOCADOS
PINEAPPLES
DATES
PERSIMMONS
CASHEWAPPLES
PAPAYAS
FRESH TROPICAL FRUIT NES
DRIED TROPICAL FRUIT NES
FRESH FRUIT NES
FRUIT JUICE NES
DRIED FRUIT NES
PREPARED FRUIT NES
FLOUR OF FRUIT

MEAT AND OFFALS

BEEF AND VEAL
MEAT EXTRACTS
BEEF PREPARATIONS
EDIBLE OFFALS OF CATTLE
BUFFALO MEAT
EDIBLE OFFALS OF BUFFALO
MUTTON AND LAMB
EDIBLE OFFALS OF SHEEP
GOAT MEAT
EDIBLE OFFALS OF GOATS
PIGMEAT
EDIBLE OFFALS OF PIGS
CHICKEN MEAT
OFFALS LIVER OF CHICKENS
DUCK MEAT
OFFALS LIVER OF DUCKS
GOOSE MEAT
OFFALS LIVER OF GEESE
TURKEY MEAT
OFFALS LIVER OF TURKEYS
POULTRY MEAT NES
HORSEMEAT
EDIBLE OFFALS OF HORSES
MEAT OF ASSES
MEAT OF MULES
MEAT OF CAMELS
EDIBLE OFFALS OF CAMELS
RABBIT MEAT
GAME MEAT
MEAT NES
DRIED MEAT NES
OFFALS NES

EGGS

HEN EGGS
EGGS EXCL HEN

FISH AND SEAFOOD

FRESHWATER DIADROM
DEMERSAL FISH
PELAGIC FISH
MARINE FISH NES
CRUSTACEANS
MOLLUSCS
CEPHALOPODS
AQUATIC MAMMALS MEAT
AQ MAMMALS PREPARED NES
AQUATIC PLANTS
DRIED AQUATIC PLANTS

MILK

WHOLE COW MILK
FRESH CREAM
SKIM COW MILK
DRY SKIM COW MILK
FRESH WHEY
WHOLE COW MILK CHEESE
PROCESSED CHEESE
SHEEP MILK
SKIM SHEEP MILK
CHEESE OF SHEEP MILK
BUFFALO MILK
CHEESE OF BUFFALO MILK
GOAT MILK
CHEESE OF GOAT MILK
CAMEL MILK

OILS AND FATSVEGETABLE OILS AND FATS

RICE BRAN OIL
MAIZE OIL
SOYABEAN OIL
GROUNDNUT OIL
COCONUT OIL
PALM KERNEL OIL
PALM OIL
OLIVE OIL
OLIVE RESIDUE OIL
KARITE NUT BUTTER
CASTOR BEAN OIL
SUNFLOWER SEED OIL
RAPESEED OIL

TUNG OIL
SAFFLOWERSEED OIL
SESAME SEED OIL
MUSTARD SEED OIL
POPPY SEED OIL
KAPOKSEED OIL
COTTONSEED OIL
LINSEED OIL
STILLINGIA OIL
HEMPSEED OIL
HYDROGENATED OILS
MARGARINE & SHORTENING
LIQUID MARGARINE
VEGETABLE TALLOW
VEGETABLE OILS NES

ANIMAL OILS AND FATS

CATTLE FAT
CATTLE BUTCHER FAT
BUFFALO FAT
CAMEL FAT
OTHER CAMELIDS FAT
SHEEP FAT
GOATS FAT
PIGS FAT
PIG BUTCHER FAT
LARD
POULTRY FAT
ANIMAL OILS & FATS NES
TALLOW
FAT PREPARATIONS NES
BUTTER OF COW MILK
GHEE FROM COW MILK
BUTTER OF BUFFALO MILK
GHEE FROM BUFFALO MILK
BUTTER GHEE OF SHEEPMILK
BUTTER OF GOAT MILK
FRESHWATER FISH BODYOILS
FRESHWATER LIVER OILS
DEMERSAL FISH BODYOILS
DEMERSAL FISH LIVER OILS
PELAGIC FISH BODY OILS
PELAGIC FISH LIVER OILS
MARINE FISH NES BODYOILS
MARINE NES LIVER OILS
AQUATIC MAMMALS OILS

SPICES

PEPPER WHITE/LONG/BLACK
ANISE Badian FENNEL
PIMENTO, ALLSPICE
VANILLA
CINNAMON (CANELLA)
CLOVES, WHOLE & STEMS
NUTMEG MACE CARDAMONS
GINGER
PEPPERMINT
SPICES NES

STIMULANTS

GREEN COFFEE
COFFEE SUTSTITUTES
COCOA BEANS
CHOCOLATE PRODUCTS NES
TEA
MATE
TEA NES
BEVERAGES NON-ALCOHOLIC
KOLANUTS
ARECA NUTS (BETEL)
HOPS
CHICORY ROOTS

ALCOHOLIC BEVERAGES

BEER OF BARLEY
BEER OF MAIZE
BEER OF MILLET
BEER OF SORGHUM
WHEAT FERMENTED BEVERAGE
RICE FERMENTED BEVERAGES
WINE
DISTILLED ALCOHOL
FERMENTED BEVERAGES NES

COUNTRY COVERAGE OF CONTINENTS AND ECONOMIC CLASSES AND REGIONS

Continents

AFRICA

Algeria, Angola, Benin, Botswana, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Egypt, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Lesotho, Liberia, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Reunion, Rwanda, São Tomé and Príncipe, Senegal, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Tunisia, Uganda, Upper Volta, Zaire, Zambia, Zimbabwe.

NORTH AND CENTRAL AMERICA

Antigua, Bahamas, Barbados, Belize, Bermuda, Canada, Costa Rica, Cuba, Dominica, Dominican Republic, El Salvador, Grenada, Guadeloupe, Guatemala, Haiti, Honduras, Jamaica, Martinique, Mexico, Netherlands Antilles, Nicaragua, Panama, St. Christopher and Nevis, Saint Lucia, St. Vincent, Trinidad and Tobago, United States.

SOUTH AMERICA

Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, French Guiana, Guyana, Paraguay, Peru, Suriname, Uruguay, Venezuela.

ASIA

Afghanistan, Bangladesh, Brunei, Burma, China, Cyprus, Hong Kong, India, Indonesia, Iran, Iraq, Israel, Japan, Jordan, Democratic Kampuchea, Democratic People's Republic of Korea, Republic of Korea, Kuwait, Laos, Lebanon, Macau, Malaysia, Maldives, Mongolia, Nepal, Pakistan, Philippines, Saudi Arabia, Singapore, Sri Lanka, Syria, Thailand, Turkey, United Arab Emirates, Viet Nam, Yemen Arab Republic, Democratic Yemen.

EUROPE

Albania, Austria, Belgium-Luxembourg, Bulgaria, Czechoslovakia, Denmark, Faeroe Islands, Finland, France, German Democratic Republic, Federal Republic of Germany, Greece, Hungary, Iceland, Ireland, Italy, Malta, Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, United Kingdom, Yugoslavia.

OCEANIA

Australia, Fiji, French Polynesia, Kiribati, New Caledonia, New Zealand, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu.

USSR

Economic Classes and Regions

CLASS I : Developed Market Economies

North America: Canada, United States.

Western Europe: Austria, Belgium-Luxembourg, Denmark, Faeroe Islands, Finland, France, Federal Republic of Germany, Greece, Iceland, Ireland, Italy, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom, Yugoslavia.

Oceania: Australia, New Zealand.

Other Developed Market Economies: Israel, Japan, South Africa.

CLASS II : Developing Market Economies

Africa: Algeria, Angola, Benin, Botswana, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Reunion, Rwanda, São Tomé and Príncipe, Senegal, Sierra Leone, Somalia, Swaziland, Tanzania, Togo, Tunisia, Uganda, Upper Volta, Zaire, Zambia, Zimbabwe.

Latin America: Antigua, Argentina, Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Saint Lucia, St. Christopher and Nevis, St. Vincent, Suriname, Trinidad and Tobago, Uruguay, Venezuela.

Near East: Afghanistan, Cyprus, Egypt, Iran, Iraq, Jordan, Kuwait, Lebanon, Libya, Saudi Arabia, Sudan, Syria, Turkey, United Arab Emirates, Yemen Arab Republic, Democratic Yemen.

Far East: Bangladesh, Brunei, Burma, Hong Kong, India, Indonesia, Republic of Korea, Laos, Macau, Malaysia, Maldives, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand.

Other Developing Market Economies: Fiji, French Polynesia, Kiribati, New Caledonia, Papua New Guinea, Samoa, Solomon Islands, Tonga, Vanuatu.

CLASS III: Centrally Planned Economies

Asia: China, Democratic Kampuchea, Democratic People's Republic of Korea, Mongolia, Viet Nam.

Eastern Europe and USSR: Albania, Bulgaria, Czechoslovakia, German Democratic Republic, Hungary, Poland, Romania, USSR.

All Developed Countries: Includes Developed Market Economies and Eastern Europe and USSR of Class III "Centrally Planned Economies".

All Developing Countries: Includes Developing Market Economies and Asia of Class III "Centrally Planned Economies".

STANDARDIZED FOOD BALANCE SHEET

POPULATION 265563000

USSR
AVERAGE 1979-81
UNITS=1000 METRIC TONS

INFORMATION AVAILABLE AS OF 20 JUNE 1983

	PRO- DUC- TION	IN- PORTS	STOCK CHAN- GES	EX- PORTS	PROC- CESS- ED TRADE (E-I)	DOMES- TIC SUPPLY	DOMESTIC		UTILIZATION		WASTE	FOOD	PER CAPUT SUPPLY					
							FEED	SEED	MANUFACTURE	FOOD			KILO- GRAMS /YEAR	PER DAY				
														FOOD USE	NON FOOD USE	GRAMS	CALO- RIES NOS	PRO- TEIN GRAMS
GRAND TOTAL																3360	99.7	95.5
VEGETABLE PRODUCTS																2489	49.2	30.7
ANIMAL PRODUCTS																871	50.5	64.8
GRAND TOTAL EXC ALCOHOL																3207	99.4	95.5
CEREALS													184.0	504.1	1291	36.3	5.0	
WHEAT	89493	13483	-7067	1823	-640	108860	48667	8899	790	1173	12064	37266	140.3	384.4	988	29.1	3.9	
PADDY RICE	2528				-1311	3839		149			87	3602	13.6	37.1	87	1.7	.1	
BARLEY	43469	2639	-1916	38	-311	48297	36975	5429	1476		4004	412	1.6	4.3	10	.3		
MAIZE	8609	13042	-233	146		21738	15800	2024	106	952	2766	90	.3	.9	2	.1		
RYE	8942	343	-1902	7		11180	1367	1431	249		1748	6385	24.0	65.9	172	4.2	.5	
OATS	14906	202	-767	11		15864	11667	2203	190		1404	399	1.5	4.1	9	.3	.2	
MILLET	1642		-100		6	1736	749	84			335	568	2.1	5.9	18	.5	.2	
SORGHUM	103	1820				1923	1727	3			192							
BUCKWHEAT	884		-66		195	755	395	156			100	105	.4	1.1	3	.1		
MIXED GRAIN	110					110	48	17			12	33	.1	.3	1			
CEREALS NES	4					4	3	1										
ROOTS AND TUBERS													109.7	300.5	213	5.1	.3	
POTATOES	76706	201	-1667	31	-75	78618	21278	17205	4104	522	6393	29116	109.7	300.5	213	5.1	.3	
SUGARS AND HONEY													47.9	131.2	466			
SUGAR BEETS	72681					72681	7009		65309		363							
RAW SUGAR	7017	3932	-1341		-630	12920			381			12538	47.2	129.3	460			
HONEY	186			13		173						174	.7	1.8	5			
PULSES													3.8	10.4	36	2.4	.1	
DRY BEANS	69					69		6			3	60	.2	.6	2	.1		
DRY PEAS	4419		-266	43		4642	2954	508			238	943	3.6	9.7	33	2.2	.1	
LENTILS	5		-1			6		1				5		.1				
VEGETCHES	629					629	532	66			31							
LUPINS	154					154	114	33			8							
PULSES NES	47					47	37	7			2							
NUTS AND OILSEEDS													2.2	6.0	19	1.0	1.3	
CASHEW NUTS		19				19						19	.1	.2	1		.1	
CHESTNUTS	5					5						5		.1				
ALMONDS	7	6				13						13		.1				
WALNUTS	51	3				54				2	53	.2	.5	2		.2		
HAZELNUTS FILBERTS	3	18				21				1	21	.1	.2	1		.1		
NUTS NES	1					1					2							
SOYBEANS	494	1416	40			1870	139	78	1553		20	80	.3	.8	3	.3	.1	
GROUNDNUTS IN SHELL	2				-56	58			4		1	53	.2	.5	2	.1	.2	
COCONUTS			-2		-51	53			53									
PALM KERNELS		2	-1			3			2									
OLIVES					-1	1					1							
CASTOR BEANS	44		-4			48		2	45		1							
SUNFLOWER SEED	4903		-98			5001		385	3679	500	100	337	1.3	3.5	9	.5	.6	
RAPESEED	17					17		2	15									
TUNG NUTS	3					3			3									
SAFFLOWER SEED	3					3			3									
SESAME SEED		9				9			9									
MUSTARD SEED	57		-18			75		13	61		1							
COTTONSEED	5848			29		5819	1319	158	4225		117							
LINSEED	213					213		92	117		4							
HEMPSEED	12					12		3	9									
OILSEEDS NES	2	35		1		36			36						1	.1		
VEGETABLES													94.5	258.9	56	3.1	.5	
CABBAGES	8945		-567			9512	433				190	8888	33.5	91.7	17	1.2	.2	
TOMATOES	7144	83				7227					723	6504	24.5	67.1	13	.6	.1	
CAULIFLOWER	10					10					1	9		.1				
CUCUMBERS AND GHERKINS	1420					1420					142	1278	4.8	13.2	1	.1		
GREEN ONIONS, SHALLOTS		34				34						34	.1	.3				
DRY ONIONS	1905					1905					95	1810	6.8	18.7	8	.2		
GARLIC	23	4				27					3	24	.1	.2				
GREEN PEAS	227					227					23	205	.8	2.1	1	.1		
CARROTS	1924		-100			2024	763				202	1059	4.0	10.9	4	.1		
FRESH VEGETABLES NES	5146	43	-183	29		5343			4		529	4810	18.1	49.6	11	.7	.1	
PREPARED VEGETABLES NES		411		1		410						410	1.5	4.2	2	.1		
FRUIT													39.0	106.8	52	.5	.3	
BANANAS		48				48					5	44	.2	.4				
ORANGES	250	318				568					57	511	1.9	5.3	2			
TANGERINES MANDARINES		43				43					4	39	.1	.4				
LEMONS AND LINES		89				89					4	95	.3	.9				
GRAPEFRUIT AND POMELO		18				18					2	16	.1	.2				
APPLES	6285	413	66			6632					867	5765	21.7	59.5	27	.2	.2	
PEARS	575					575					58	518	1.9	5.3	3			
QUINCES	32					32					3	29	.1	.3				
APRICOTS	255					255					25	229	.9	2.4	1			
SOUP CHERRIES	202					202					20	181	.7	1.9	1			
CHERRIES	109					109					11	98	.4	1.0	1			
PEACHES AND NECTARINES	422	1				423					42	381	1.4	3.9	2			
PLUMS	873	1			-25	899			427		88	384	1.4	4.0	2			
STRAWBERRIES	101					101					10	91	.3	.9				
MASPBERRIES	99					99					10	89	.3	.9	1			
GOOSEBERRIES	72					72					7	65	.2	.7				
CURRANTS	83					83					8	74	.3	.8				
GRAPES	6648	21		-282		6951			5327		463	1162	4.4	12.0	8	.1		
WATERMELONS	3183					3183	955		1643		318	267	1.0	2.8				
FIGS					-14	14						14	.1	.1				

STANDARDIZED FOOD BALANCE SHEET

POPULATION 265563000

USSR
AVERAGE 1979-81
UNITS=1000 METRIC TONS

INFORMATION AVAILABLE AS OF 20 JUNE 1983

	PRO- DUC- TION	IM- PORTS	STOCK CHANGES	EX- PORTS	PROC- CESS- ED TRADE (E-I)	DOMES- TIC SUPPLY	DOMESTIC		UTILIZATION		PER CAPUT SUPPLY			
							FEED	SEED	MANUFACTURE	WASTE	FOOD	PER DAY		
									FOOD USE	NON FOOD USE	KILO- GRAMS /YEAR	GRAMS	CALO- RIES	FAT TEIN NOS GRAMS
PINEAPPLES		5				5					4			
DATES		22				22					21	.1	.2	1
FRESH FRUIT NES	20	16		13		23				4	19	.1	.2	
FRUIT JUICE NES		117				117					117	.4	1.2	1
PREPARED FRUIT NES		180	33	7		140					140	.5	1.4	1
MEAT AND OFFALS											61.9	169.7	311	21.4 24.3
BEEF AND VEAL	6720	309		22	-21	7028				70	6957	26.2	71.8	174 10.3 14.4
EDIBLE OFFALS OF CATTLE	673					673				101	34	538	2.0	5.6 6 1.0 .1
MUTTON AND LAMB	823	112				935					9	925	3.5	9.5 14 1.2 .9
EDIBLE OFFALS OF SHEEP	112					112				39	6	67	.3	.7 1 .1
PIGMEAT	5223				-181	5404		209			52	5143	19.4	53.1 81 4.3 6.9
EDIBLE OFFALS OF PIGS	238					238				36	12	191	.7	2.0 2 .4 .1
CHICKEN MEAT	2143	184				2327					12	2315	8.7	23.9 30 3.5 1.6
RABBIT MEAT	91					91						91	.3	.9 1 .2
MEAT NES	170			9		161					161	.6	1.7	2 .3 .1
EGGS											13.3	36.6	52	4.2 3.6
HEN EGGS	3748	38				3786		114			189	3484	13.1	35.9 51 4.1 3.6
EGGS EXCL HEN	65					65		2			3	60	.2	.6 1 .1 .1
FISH AND SEAFOOD											25.5	69.7	59	8.8 2.3
FRESHWATER DIADROM	954				10	944					944	3.6	9.7	11 1.6 .5
DEMERSAL FISH	3880				494	3386	1131				2255	8.5	23.3	11 2.2 .2
PELAGIC FISH	3632				43	3589	642				2948	11.1	30.4	31 4.0 1.5
MARINE FISH NES	401				-103	504					504	1.9	5.2	5 .9 .1
MILK											139.5	382.1	279	16.0 16.0
WHOLE COW MILK	90557				-391	90948	13999	48051	2717	26182	98.6	270.1	175	8.9 10.2
FRESH CREAM	1550					1550			31	1519	5.7	15.7	32	.5 3.1
SKIM COW MILK	38359				49	38310	24062	4035	836	767	8610	32.4	88.9	43 4.8 .4
WHOLE COW MILK CHEESE	679	9		8		680					680	2.6	7.0	27 1.8 2.2
CHEESE OF SHEEP MILK	19	5				24					24	.1	.2	1 .1
OILS AND FATS											17.1	47.0	366	.2 41.3
VEGETABLE OILS AND FATS											9.2	25.3	202	.1 22.7
HAIZE OIL	11					11					11		.1	1 .1
SOYA BEAN OIL	273	39				312			67		246	.9	2.5	22 2.5
PALM OIL		112				112			112					
OLIVE OIL		11				11					11		.1	1 .1
SUNFLOWER SEED OIL	1665	95	3	116		1681		1115	12		515	1.9	5.3	47 5.3
MUSTARD SEED OIL	14					14					14	.1	.1	1 .1
COTTON SEED OIL	672			2		670			324		347	1.3	3.6	32 3.6
MARGARINE, SHORTENING	1299	5		4		1300					1300	4.9	13.4	97 .1 10.9
ANIMAL OILS AND FATS											7.9	21.7	164	.1 18.6
LARD	701	9	-56	89		677			149		528	2.0	5.5	48 5.5
BUTTER OF COW MILK	1375	213		17		1571					1572	5.9	16.2	116 .1 13.1
SPICES											.5	1.3	4	.2 .2
PEPPER, WHITE/LONG/BLACK		12				12					12		.1	
PIMENTO, ALLSPICE	113	3				116					116	.4	1.2	3 .1 .1
CINNAMON (CANELLA)		1				1					1			
SPICES NES		1				1					1			
STIMULANTS											1.4	3.8	3	.3 .2
GREEN COFFEE		43			-1	44					44	.2	.5	
COCOA BEANS		125			-11	136					136	.5	1.4	2 .1 .2
TEA	128	68		18		178					178	.7	1.8	1 .2
HOPS	7	3				10		10						
CHICORY ROOTS	8					8				1	7		.1	
ALCOHOLIC BEVERAGES											50.1	137.4	153	.3
BEER OF BARLEY	6254	76				6330					6329	23.8	65.3	33 .3
WINE	3200	770		14		3956					3956	14.9	40.8	28
DISTILLED ALCOHOL	2873	54	-133	27		3033					3033	11.4	31.3	92